

Title (en)

MEASURING DEVICE FOR MEASURING AN ARTICULATION ANGLE AND VEHICLE COMBINATION

Title (de)

MESSVORRICHTUNG ZUR MESSUNG EINES KNICKWINKELS UND FAHRZEUGKOMBINATION

Title (fr)

DISPOSITIF DE MESURE POUR MESURER UN ANGLE DE FLÈCHE ET COMBINAISON DE VÉHICULES

Publication

EP 3544835 A1 20191002 (DE)

Application

EP 17821786 A 20171121

Priority

- CH 15522016 A 20161123
- EP 2017079890 W 20171121

Abstract (en)

[origin: WO2018095899A1] In a measuring device for measuring an articulation angle (wK) between a tractor vehicle (2) which has a longitudinal axis (xZ), and a trailer (1) which has a longitudinal axis (xT), with a trailer coupling (9) which trailer coupling (9) comprises a coupling ball (12), a ball receptacle (11) which serves to receive the coupling ball (21), and at least one magnetic sensor (4; 4A, 4B) it is proposed that the coupling ball (21) have a ball opening (20), that a magnet (3) be mounted in the ball opening (20), and that the ball receptacle (11) have a recess (10), and that the at least one magnetic sensor (4; 4A, 4B) be mounted in the recess (10), wherein changes in a magnetic field (30) generated by the magnet (3) are sensed by the magnetic sensor (4; 4A, 4B).

IPC 8 full level

B60D 1/30 (2006.01); **B60D 1/06** (2006.01); **B60D 1/62** (2006.01)

CPC (source: CH EP RU US)

B60D 1/06 (2013.01 - EP RU); **B60D 1/245** (2013.01 - CH RU); **B60D 1/30** (2013.01 - EP RU US); **B60D 1/58** (2013.01 - RU US); **B60D 1/62** (2013.01 - CH EP RU); **G01B 7/30** (2013.01 - CH RU US); **B60D 1/38** (2013.01 - US)

Citation (search report)

See references of WO 2018095899A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018095899 A1 20180531; CH 713154 A2 20180531; CN 110023116 A 20190716; CN 110023116 B 20221230; EP 3544835 A1 20191002; EP 3544835 B1 20201028; RU 2019115848 A 20201224; RU 2019115848 A3 20210324; RU 2748293 C2 20210521; US 10717331 B2 20200721; US 2019366786 A1 20191205

DOCDB simple family (application)

EP 2017079890 W 20171121; CH 15522016 A 20161123; CN 201780069311 A 20171121; EP 17821786 A 20171121; RU 2019115848 A 20171121; US 201716461861 A 20171121